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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

06/02/2009

Michael J. Mallie
BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP
Seventh Floor
12400 Wilshire Boulevard
Los Angeles, CA 90025-1026

EXAMINER

TRUONG, LAN DAI T

ART UNIT

PAPER NUMBER

2452

DATE MAILED: 06/02/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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09/894,524

06/27/2001

Martin Boliek

074451.P134

5999

TITLE OF INVENTION: JPEG 2000 FOR EFFICIENT IMAGING IN A CLIENT/SERVER ENVIRONMENT

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	09/02/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

**Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

7590

06/02/2009

Michael J. Mallie
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Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/894,524	06/27/2001	Martin Boliek	074451.P134	5999

TITLE OF INVENTION: JPEG 2000 FOR EFFICIENT IMAGING IN A CLIENT/SERVER ENVIRONMENT

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	09/02/2009

EXAMINER	ART UNIT	CLASS-SUBCLASS
TRUONG, LAN DAI T	2452	709-247000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, 1 _____
- (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 _____
- 3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☐ Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies _____

4b. Payment of Fee(s); (Please first reapply any previously paid issue fee shown above)

- ☐ A check is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

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Date _____

Typed or printed name _____

Registration No. _____

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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EXAMINER

TRUONG, LAN DAI T

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PAPER NUMBER

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DATE MAILED: 06/02/2009

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 608 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 608 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.

09/894,524

Applicant(s)

BOLIEK ET AL.

Examiner

Art Unit

LAN-DAI Thi TRUONG

2452

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to RCE filed on 03/13/2009.
2. ☒ The allowed claim(s) is/are 1 and 3-28.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
- * Certified copies not received: ____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date ____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date ____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date 03/19/09
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date ____.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other ____.

/Kenny S Lin/
Primary Examiner, Art Unit 2452

DETAILED ACTION

1. This action is response to communications: application, filed on 06/27/2001; amendments filed on 12/01/2008. Claims 1 and 3-28 are pending; claims 2 and 29-38 are canceled; claims 1, 3, 14 and 22-28 are amended.

2. Authorization for those examiner's amendments to the independent claims 1, 3, 14, 22 and dependent claims 23-28 was given in a telephone interview with Attorney Thierry K. Lo, Reg. No. 49,097 on May 18, 2009 at 1:30 PM.

3. The claims have been amended as follows:

1. (Currently amended) A client computer system for processing codestreams, the client computer system comprising:

a memory having an application and a data structure stored therein, wherein the data structure identifies positions of compressed codestream on a server and identifies data of the compressed codestream already buffered at the client; and

a processor coupled to the memory to execute the application to generate a request for portions of the compressed codestream that are not already stored in the memory from the server based on indications of which portions of the codestream are already stored in the memory as indicated by the data structure, wherein size of the requested portions is determined based on at least two of resolution, layer, component, and precinct of an image specified by a user of the client, and wherein the size of the requested portion is derived from the data structure of the client corresponding to the user specified at least two of resolution, layer, component, and

precinct of the image,

wherein the processor, prior to decoding, integrates previously ~~obtained~~ buffered portions of the compressed codestream with portions of the compressed codestream received as a result of the request to create a new codestream having markers by putting packets in the order the packets appeared in the compressed codestream and by updating the codestream markers to reflect that the previously ~~obtained~~ buffered portions of the compressed codestream and the portions of the compressed codestream received as a result of the request are parts of the new codestream,

wherein the client to generate image data by decoding the new codestream,

wherein the codestream markers include a Tile Length Marker (TLM) ~~TLM-marker~~ and Packet Length Marker (PLM) ~~PLM-marker~~ that provide a byte map to each of the packets, each of the packets being distinguishable by tile, component, resolution, and layer, wherein the processor adjusts values of at least the TLM and PLM markers to reconstruct the compressed codestream from a non-JPEG 2000 compliant format to the new JPEG 2000 compliant codestream, including adjusting the TLM and PLM markers to be compatible with corresponding markers of the JPEG 2000 standard, so that an ordinary JPEG 2000 decoder can be invoked to decode the new codestream if the portions of the compressed codestream received as a result of the request are not JPEG 2000 compliant.

3. (Currently amended) A network system for processing codestreams in a client-server configuration, the network system comprising:

a server to store a compressed codestream corresponding to image data; and

a client coupled to the server via a network environment, wherein the client includes a memory having an application and a data structure stored therein, wherein the data structure identifies positions of the compressed codestream on the server and identifies data of the compressed codestream already buffered at the client, and further wherein the client operates to request bytes of the compressed codestream from the server that are not already stored in the memory and generate a new codestream from the bytes of the compressed codestream requested from the server and ~~any~~ portion of the compressed codestream previously stored in the memory necessary to create the image data [[,]]:

prior to decoding, the client integrates already buffered portions of the compressed codestream with portions of the compressed codestream received as a result of the request to create a new codestream having markers, the new codestream generated by putting packets in the order the packets appeared in the compressed codestream and by updating codestream markers to reflect that the bytes of the compressed codestream requested from the server and ~~any~~ portion of the compressed codestream previously stored in the memory necessary to create the image data are parts of the new codestream, the client to generate image data by decoding the new codestream, wherein size of the requested bytes is determined based on at least two of resolution, layer, component, and precinct of an image specified by a user of the client, and wherein the size of the requested portion is derived from the data structure of the client corresponding to the user specified at least two of resolution, layer, component, and precinct of the image,

wherein the codestream markers include a Tile Length Marker (TLM) ~~TLM-marker~~ and Packet Length Marker (PLM) ~~PLM-marker~~ that provide a byte map to each of the packets, each of the packets being distinguishable by tile, component, resolution, and layer, wherein the

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processor adjusts values of at least the TLM and PLM markers to reconstruct the compressed codestream from a non-JPEG 2000 compliant format to the new JPEG 2000 compliant codestream, including adjusting the TLM and PLM markers to be compatible with corresponding markers of the JPEG 2000 standard, so that an ordinary JPEG 2000 decoder can be invoked to decode the new codestream if the portions of the compressed codestream received as a result of the request are not JPEG 2000 compliant.

14. (Currently amended) A method for processing image data by a client, the method comprising:

- determining image characteristics that a user requests, the image characteristics including at least two of resolution, layer, component, and precinct of an image specified by the user;

- selecting data of a compressed codestream that corresponds to the image characteristics;

- determining data of a compressed codestream that corresponds to the image characteristics that is not already buffered at the client, size of the determined data being determined based on the determined image characteristics, wherein the determining the data of a compressed codestream comprises using a data structure that identifies positions of portions of the compressed codestream on a server and that identifies data of the compressed codestream already buffered at the client, and wherein the data of the compressed codestream that corresponds to the image characteristics that is not already buffered at the client is derived from, the data structure of the client corresponding to the user specified at least two of resolution, layer, component, and precinct at of the image;

- issuing requests to the server to obtain the data of a compressed codestream that corresponds to the image characteristics and that is not already buffered at the client;

prior to decoding, integrating the data of a compressed codesstream received as a result of the request ~~from the server~~ with the any previously buffered data of the compressed codesstream that corresponds to the image characteristics to create a new codesstream having markers that reflect both data of a compressed codesstream received from the server and the any previously buffered data of the compressed codesstream that corresponds to the image characteristics are included in the new codesstream,

wherein the markers include a Tile Length Marker (TLM) ~~TLM-marker~~ and Packet Length Marker (PLM) ~~PLM-marker~~ that provide a byte map to each of the packets, each of the packets being distinguishable by tile, component, resolution, and layer, including adjusting values of at least the TLM and PLM markers to reconstruct the compressed codesstream from a non-JPEG 2000 compliant format to the new JPBG 2000 compliant codesstream, including adjusting the TLM and PLM markers to be compatible with corresponding markers of the JPEG 2000 standard, so that an ordinary JPEG 2000 decoder can be invoked to decode the new codesstream if the portions of the compressed codesstream received as a result of the request are not JPEG 2000 compliant;

decoding according to the JPEG 2000 standard the data of the new codesstream that corresponds to the image characteristics; and

displaying an image corresponding to the decoded new codesstream.

22. (Currently amended) ~~An article of manufacture~~ A computer storage medium ~~having one or more recordable media~~ having executable instructions stored thereon ~~which~~ those, when executed by ~~the~~ a client computer system cause the client computer system to:

determine image characteristics that a user requests, the image characteristics including at

least two of resolution, layer, component, and precinct of on image specified by the user;

select data of a compressed codestream that corresponds to the image characteristics;

determine data of a compressed codestream that corresponds to the image characteristics that is not already buffered at the client, wherein size of the determined data being determined being based on the determined image characteristics, wherein the determining the data of a compressed codestream comprises using a data structure that identifies positions of portions of the compressed codestream on a server and that identifies data of the compressed codestream already buffered at the client, wherein the data of the compressed codestream that corresponds to the image characteristics that is not already buffered at the client is derived from the data structure of the client corresponding to the user specified at least two of resolution, layer, component; and precinct of the image;

issue requests to the server to obtain the data of a compressed codestream that corresponds to the image characteristics and that is not already buffered at the client;

prior to decoding, integrate data of a compressed codesstream received as a result of the request from the server with the any previously buffered data of the compressed codestream that corresponds to the image characteristics to create a new codestream having markers that reflect both data received from the server and the any previously buffered data of the compressed codestream that corresponds to the image characteristics are included in the new codestream,

wherein the markers include a Tile Length Marker (TLM) marker and Packet Length Marker (PLM) PLM-marker that provide a byte map to each of the packets, each of the packets being distinguishable by tile, component, resolution, and layer, including values of at least the TLM and PLM markers to reconstruct the compressed codestream from a non-JPEG 2000

compliant format to the new JPEG 2000 compliant codestream, including adjusting the TLM and PLM markers to be compatible with corresponding markers of the JPEG 2000 standard, so that an ordinary JPEG 2000 decoder can be invoked to decode the new codestream if the portions of the compressed codestream received as a result of the request are not JPEG 2000 compliant;

decode the data of the new codestream that corresponds to the image characteristics;
display an image corresponding to the decoded new codestream.

23. (Currently amended) ~~The article of manufacture~~ A computer storage medium defined in Claim 22 further comprising instructions which, when executed by the system, cause the system to create the compressed codestream for a software decoder on the client.

24. (Currently amended) ~~The article of manufacture~~ A computer storage medium defined in Claim 22 further comprising instructions which, when executed by the system, cause the system to determine the location and length of each packet.

25. (Currently amended) ~~The article of manufacture~~ A computer storage medium defined in Claim 24 further comprising instructions which, when executed by the system, cause the system to request a headerlength of a compressed file from the server that includes one or more file format boxes and a main header of the codestream box from which the client determines the location and length of each packet.

26. (Currently amended) ~~The article of manufacture~~ A computer storage medium defined in Claim 25 wherein the main header includes two marker segments indicative of a bytemap to every packet.

27. (Currently amended) ~~The article of manufacture~~ A computer storage medium defined in Claim 26 wherein the two marker segments comprise the TLM and PLM marker

segments.

28. (Currently amended) ~~The article of manufacture~~ A computer storage medium defined in Claim 22 wherein the compressed codestream comprises a JPEG 2000 codestream.

Reasons for allowance

4. With respect to claims 1, 3, 14 and 22, the prior arts of record, singly or in combination fails to teach the features of claim(s) limitations thereof. Specially, inter alia, it fails to teach a client computer system for processing codestreams, comprising: a memory having an application and a data structure stored therein, wherein the data structure identifies positions of compressed codestream on a server and identifies data of the compressed codestream already buffered at the client; a processor coupled to the memory to execute the application to generate a request to a server for portions of the compressed codestream that are not already stored in the memory based on indications of which portions of the codestream are already stored in the memory as indicated by the data structure, wherein size of the requested portions is determined based on at least two of resolution, layer, component, and precinct of an image specified by a user of the client, wherein the size of the requested portion is derived from the data structure of the client corresponding to the user specified at least two of resolution, layer, component, and precinct of the image, wherein the processor, prior to decoding, integrates previously buffered portions of the compressed codestream with portions of the compressed codestream which received as a result of the request to create a new codestream having markers by putting packets in the order the packets appeared in the compressed codestream and by updating the codestream markers to reflect that the previously buffered portions of the compressed codestream and the portions of the compressed codestream received as a result of the request are parts of the new codestream,

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wherein the client to generate image data by decoding the new codestream, and wherein the codestream markers include a Tile Length Marker (TLM) and Packet Length Marker (PLM) that provide a byte map to each of the packets, wherein each of the packets being distinguishable by tile, component, resolution, and layer, and wherein the processor adjusts values of at least the TLM and PLM markers to reconstruct the compressed codestream from a non-JPEG 2000 compliant format to the new JPEG 2000 compliant codestream, including adjusting the TLM and PLM markers to be compatible with corresponding markers of the JPEG 2000 standard, so that an ordinary JPEG 2000 decoder can be invoked to decode the new codestream if the portions of the compressed codestream received as a result of the request are not JPEG 2000 compliant.

Claims 4-13, 15-21 and 23-28 further limit the allowed claims, therefore they are also allowed.

5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance"

Conclusions

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to LAN-DAI Thi TRUONG whose telephone number is (571)272-7959. The examiner can normally be reached on Monday- Friday from 8:30am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John A. Follansbee can be reached on 571-272-3964. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Ldt.
05/22/2009.

/Kenny S Lin/

Primary Examiner, Art Unit 2452